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CENTRAL INTELLIGENCE AGENCY
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REPORT

CD NO.

50X1-HUM

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SOURCE Periodicals as indicated.

TECHNICIAN EXAMINATIONS AND CANDIDATES SELECTED

EXAMINATION REGULATIONS

Naegak Kongbo, No 5
22 Apr 49

According to the Naegak Kongbo (North Korean government official bulletin) of 22 April 1949, which published the text of the "Regulations Governing Technician Qualification Examinations," all applicants for technician certificates must take the qualifying examinations unless they have graduated from a technical college. Also, all applicants for certificates must have two recommendations: from the factory manager under whom the applicant works and, from the city or county technicians league.

The applicant must submit his application papers, certificates and letters of recommendation to the city or county chairman of the People's Committee, who will in turn forward them to the Provincial People's Committee for presentation to the Examination Committee.

All successful applicants, i.e., those whose technical college diploma's are validated or who are accepted for and pass the qualifying examinations, are given certificates. These certificates are of three types, in descending rank: engineer, technician, and associate technician.

The examination is in two parts, a preliminary examination and a final examination.

Examination committees are established for two fields: (1) industry, and (2) agriculture, forestry, and fishing, which include the following:

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Industry--High- and low-voltage electrical work, machinery, railroads, mining, metallurgy, chemistry, ceramics, civil engineering, construction, textiles, merchant marine and salt manufacturing.

Agriculture, Forestry, and Fishing--Agricultural production, forest production, marine production, livestock, veterinary, sericulture, farm construction work, agricultural and horticultural chemistry, and meteorology.

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TABLE OF EXAMINATION SUBJECTS

No	Field	Dept	Preliminary Examination Required Subjects (Engineers and Technician unless otherwise noted)	No of Subjects	Final Examination Required Subjects	Final Examination Elective Subjects	No of Elective Subjects	No of Subjects	Total No of Subjects
1	High-voltage work		Mathematics, physics, theory of electricity	3	Electrical machinery, electromagnetism	Power generation, power transmission, electrical materials, electric railroads, electric lighting	1	3	6
2	Low-voltage work	Radio	Mathematics, physics, theory of electricity, introduction to radio	4	Radio waves, radio direction, vacuum-tube circuits	Radio broadcasting equipment, broadcast stage preparation, transmitters and receivers	1	5	9
		Wire	Mathematics, physics, electrochemistry, theory of electricity	4	Theory of electric transmission, electric meters, electrical apparatus	Telegraphy, telephony, theory of broadcasting, theory of wiring	1	4	8
3	Machinery		Physics, mechanics, mathematics, applied mechanics	4	Machinery installation	Metallic materials, thermodynamics, repairs, engines, conveyors, shipbuilding	2	3	7
		Wheel	Mathematics, physics, applied mechanics	3					
4	Railroads					Locomotives, heat engines, thermodynamics, theory of steering, rules of driving, liquid fuels, passenger trains, metallic materials, repairs	3	3	6

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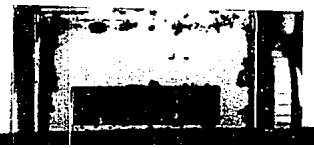

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No	Field	Dept	Preliminary Examination Required Subjects (Engineers and Technician unless otherwise noted)	No of Subjects	Final Examination Required Subjects	Elective Subjects	No of Elective Subjects	No of Subjects	Total No of Subjects
		Equipment	Mathematics, physics, applied mechanics	3	Construction materials, surveying	Construction, safety signals, bridges, track laying	2	4	7
		Transportation	Mathematics, physics, and theory of railroads	3	Theory of driving	Station, passenger train organization, freight and passenger cars, traffic control	2	4	7
5	Mining		Mathematics, physics, chemistry, mineralogy, and petrology	4		1. Mining engineering, economic geology, explosive testing 2. Coal mining, geology, explosive testing 3. Ore treatment, ore-grading machinery, analysis of viscosity	1	4	8
6	Metallurgy		Mathematics, physics, chemistry, and introduction to metallurgy	4		1. Pig iron, fuel, casting, combustion 2. Steel manufacturing, electric metallurgy, fuel, combustion 3. Rolling, forging, metallography 4. Electrolytic metallurgy, chemical analysis of nonferrous heavy metals 5. Metallurgy of precious metals, chemical analysis of nonferrous light metal	1	3	7

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7	Chemistry		Mathematics, physics, inorganic and organic chemistry	4	Engineer: Theoretical chemistry, heat conduction Technician: Theoretical chemistry, chemical apparatus	Acids and alkalies, chemical fertilizers, electrothermics, oils and fats, gunpowder, dyestuffs, kerosene, coal and rubber, rayon, leather, starch and sugar, electrodes, batteries, paint and face powder, pulp and paper manufacturing	1	3	7
8	Ceramics		Mathematics, physics, chemistry, and mineralogy	4	Engineer: Fuels, ceramics, machinery, silicates, chemistry Technician: Fuels, ceramic furnaces	Cement, ceramics, glass and enamelware, insulation	1	3 or 4	7 or 8
9	Civil engineering		Mathematics, physics, surveying, applied mechanics	4	Construction, construction material	Rivers, roads, bridges, water systems, city planning	1		
10	Construction		Mathematics, physics, applied mechanics	3	Construction material and methods	Construction drawing, construction design, city planning	1		
11	Textiles	Spinning	Mathematics, physics, chemistry, textile raw material	4	Power looms, spinning, structure of woven material	Cloth designing, dyeing, tailoring	1		
		Silk reeling	Mathematics, physics, chemistry, sericulture	4	Silk reeling, cocoon drying methods, silk chemistry				

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No	Field	Dept	Preliminary Examination Required Subjects (Engineers and Technician unless otherwise noted)	No of Subjects	Final Examination Required Subjects	Final Examination Elective Subjects	No of Elective Subjects	No of Subjects	Total No of Subjects
12	Agricultural production	Agriculture	Zoology, botany, chemistry, pedology	4	Fertilizers, introduction to farming	Engineer: Agricultural pathology, entomology, horticulture, theory of farming, breeding, agricultural economy, industrial arts Technician: Agricultural pathology, entomology, gardening, breeding	1		
		Farm equipment	Mathematics, physics, applied mechanics, introduction to farming		Pedology, farm equipment, methods of farming				
13	Forest production	Forestry	Mathematics, botany, zoology, introduction to forestry	4	Forestry economics, surveying	Afforestation, forest conservation, plant disease, control of erosion	1		
		Forest utilization	Mathematics, botany, applied mechanics, introduction to forestry	4	Forest management, surveying	Forest utilization, civil engineering, forestry	1		
13		Wood chemistry	Mathematics, botany, chemistry, introduction to forestry	4	Forest management, organic chemistry, wood chemistry			3	7

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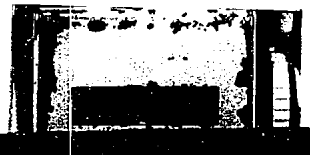

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No	Field	Dept	Preliminary Examination Required Subjects (Engineers and Technician unless otherwise noted)	No of Subjects	Final Examination Required Subjects	Final Examination Elective Subjects	No of Elective Subjects	No of Subjects	Total No of Subjects
14	Marine production	Fishing	Engineer: Mathematics, physics, introduction to fishing	3	Fishing	Propagation, navigation, pisciculture, planktology	3	5	8
			Technician: Mathematics, physics, seaweeds, pisciculture	4	Navigation	Chemistry of marine organisms		5	9
		Processing	Mathematics, organic chemistry, seaweeds, pisciculture	4	Manufacturing methods, industrial chemistry, bacteriology, and chemistry of marine products			4	8
15	Livestock		Organic chemistry, livestock and feed	3	Livestock, livestock management, livestock sanitation, heredity	Poultry, domestic animals, livestock products	1	5	9
16	Veterinary		Engineer: Chemistry, pharmacology, zoology, veterinary science	4	Anatomical pathology, domestic animal parasitology, theory of animal disease prevention	Bacteriological immunization; domestic animal diseases; animal obstetrics, diagnosis	1	4	8
17	Sericulture		Zoology, botany, sericulture, chemistry	4	Mulberry trees, soil, and fertilizer; wild silkworms and their disease	Study of silkworms, silk reeling; wild and domestic silkworms	1	5	9

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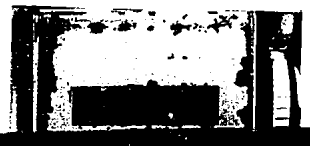

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No	Field	Dept	Preliminary Examination Required Subjects (Engineers and Technician unless otherwise noted)	No of Subjects	Final Examination Required Subjects	Final Examination Elective Subjects	No of Elective Subjects	No of Subjects	Total No of Subjects
18	Farm construction work	Irrigation	Mathematics, physics, applied mechanics, surveying	4	Hydraulic engineering, theory of construction			3	7
		Subsoil water	Mathematics, physics, geology, surveying	4	Hydraulic engineering; subterranean water			2	6
		Cadastre	Mathematics, physics, surveying	3	Hydraulic engineering, theory of plowing, introduction to farm engineering			4	7
19	Agricultural chemistry		Botany, zoology, chemistry, analytic chemistry	4	Bacteriology, biochemistry	Soils and fertilizers; processing agricultural products	1	3	7
20	Meteorology		Mathematics, physics, geophysics, astronomy	4	Meteorology: forecasting, observation equipment, meteorological statistics			4	8
21	Salt manufacture		Mathematics, physics, chemistry, pedology	4	Meteorology, hydraulic theory	Salt manufacturing, installations	1	3	7
22	Merchant	Navigation	Mathematics, physics, oceanography, meteorology, introduction to astronomy	4	Navigation regulations, shipbuilding, introduction to navigation, installations, sea transportation			5	9

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No	Field	Dept	Preliminary Examination Required Subjects (Engineers and Technician unless otherwise noted)	No of Subjects	Final Examination Required Subjects	Elective Subjects	No of Elective Subjects	No of Subjects	Total No of Subjects
		En-gine	Mathematics, physics, applied mechanics, thermodynamics	4	Introduction to ship structure, navigation regulations, sea transportation	Steam engines and internal combustion engines (1 out of the 2); electric machinery and ship parts (required)	2	4	8

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TECHNICIAN EXAMINATION

Kongop Jisik
25 Jul 49

On 7, 8, and 9 June 1949, the North Korean government held technician qualification examinations. The Examination Committee announced the following results on 21 July 1949.

Passed Final Examination

Field	Province	Name	Qualified
High Voltage	Kangwon	Chin Hong-yon	Technician
High Voltage	P'yong-puk	An Yim-kil	Technician
High Voltage	Ham-nam	Yim Pyong-kil	Technician
High Voltage	Ham-nam	Kim Chong-won	Engineer
High Voltage	P'yongyong	No Song-uk	Engineer
High Voltage	P'yongyong	Mun Ch'ang-won	Engineer
High Voltage	P'yongyong	Cho Tong-hol	Technician
Low Voltage (wire)	Kongwon	No So-ul	Technician
Low Voltage (radio)	Ham-puk	Kim Sang-du	Technician
Machinery	P'yong-puk	Kim Tong-il	Engineer
Machinery	P'yongyang	Kang Yong-sop	Technician
Machinery	P'yong-nam	Kang Un-yong	Technician
Machinery	Kangwon	Kim Po-hwan	Engineer

Passed Preliminary Examination

Field	Province	Name	Applied for	Qualified in
High Voltage	Ham-nam	Song Yong-kap	Technician	Transmission
Machinery	Kangwon	Shin Myong-hun	Engineer	Metallic materials
Machinery	Ham-puk	Chang Pong-hi	Technician	Machinery installation

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